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NATIONAL COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

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WEEKLY REPORT

Week Ending September 2, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

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EPIDEMIOLOGIC NOTES AND REPORTS

BRUCELLOSIS – Virginia

From June 1966 through May 1967, 43 cases of brucellosis were associated with a single meat packing plant in Virginia. Forty-one of the cases occurred among employees who worked in the beef and pork kill areas of the plant, one case in a USDA veterinarian, and one case in a USDA meat inspector. For the 11 years prior to June 1966, 10 cases of brucellosis had been reported at this plant; seven were reported between January 1 and July 18, 1960, two in the fall of 1964, and one case in January 1966.

As shown in Figure 1 (page 300), cases appeared in each month of the 12-month period, with the maximum incidence of six cases in both July 1966 and January 1967. The illness was characterized by fever (71 percent), headache, joint ache, night sweats, loss of appetite (each 44.7 percent), weight loss (36.9 percent), malaise (34.2 percent), chills (18.4 percent), dizziness, weakness, nausea (each 8.0 percent), and stiffness, sore throat, diarrhea, minor dysuria (each 2.6 percent). Of the four patients who required hospitalization, three were confined for approximately one week and one, who had suffered from an attack of viral hepatitis 8 months prior to onset of brucellosis, was hospitalized for 55 days. Almost all of the patients were

(Continued on page 300)

CASES OF SPECIFIED NOTIFIABLE DISEASES, UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	35th WEEK ENDED		MEDIAN 1962 - 1966	CUMULATIVE, FIRST 35 WEEKS		
	SEPTEMBER 2, 1967	SEPTEMBER 3, 1966		1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	121	127	68	1,620	1,604	1,234
Brucellosis	6	7	6	176	163	248
Diphtheria	5	7	3	71	120	158
Encephalitis, primary:						
Arthropod-borne & unspecified	70	194	- - -	1,042	1,305	- - -
Encephalitis, post-infectious	10	9	- - -	614	569	- - -
Hepatitis, serum	45	20	556	1,440	932	26,540
Hepatitis, infectious	638	498		25,585	21,724	
Malaria	47	10	2	1,320	240	60
Measles (rubeola)	172	516	663	57,422	188,681	357,005
Meningococcal infections, total	30	27	27	1,655	2,670	1,977
Civilian	29	27	- - -	1,542	2,398	- - -
Military	1	—	- - -	113	272	- - -
Poliomyelitis, total	—	5	5	23	66	71
Paralytic	—	5	5	19	62	62
Rubella (German measles)	133	225	- - -	39,600	41,346	- - -
Streptococcal sore throat & scarlet fever	4,098	4,047	3,534	318,923	302,167	280,208
Tetanus	5	5	6	147	115	175
Tularemia	5	4	7	123	118	195
Typhoid fever	15	9	11	269	245	275
Typhus, tick-borne (Rky. Mt. spotted fever)	16	5	6	229	186	172
Rabies in animals	66	71	47	3,035	2,917	2,917

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Rabies in man:	2
Botulism:	2	Rubella, Congenital Syndrome:	4
Leptospirosis:	25	Trichinosis: Ill.-3	48
Plague:	2	Typhus, murine: Texas-1	30
Psittacosis:	31	Polio, Unsp.	4

ASEPTIC MENINGITIS – Baltimore, Maryland

Since July 1, 1967, 85 cases of aseptic meningitis have been reported to the Baltimore City Health Department. These cases are characterized clinically by the abrupt onset of fever and frontal headache, followed by meningeal signs without CNS involvement. The illness is mild, lasting only 3 to 5 days. The cerebrospinal fluid characteristically contains abundant lymphocytes; however, early in the course of the illness there may be a significant polymorphonuclear pleocytosis.

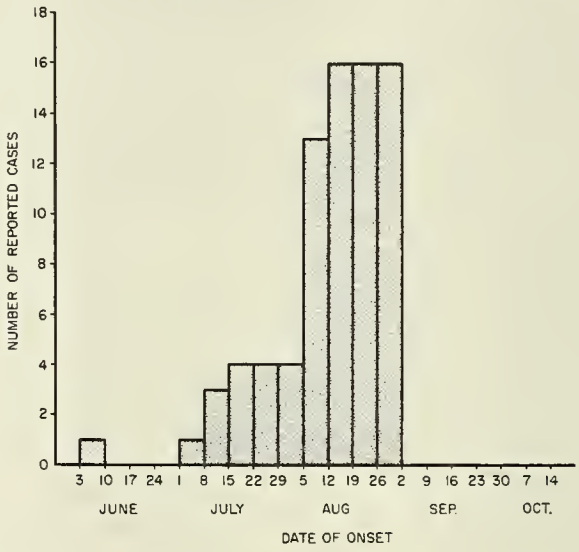
The 85 cases are shown by week of onset in Figure 2. Cases have appeared throughout the summer, but have been more frequent in August. The patients range in age from 3 weeks to 65 years, although about 70 percent of all cases have occurred in children less than 15 years of age. The male to female ratio is 3:2. The cases are widely distributed throughout the city.

Enterovirus isolations have been obtained from 12 patients. Four have been identified as Coxsackie B5, three as ECHO 9, and five are as yet unidentified.

Further epidemiologic and laboratory studies are in progress.

(Reported by James Peterman, M.D., Chief, Communicable Diseases, Baltimore City Health Department; John H. Janney, M.D., Acting Chief, Communicable Disease Division, Maryland State Department of Health; and EIS Officers.)

Figure 2
REPORTED CASES OF ASEPTIC MENINGITIS
BALTIMORE, MARYLAND – BY DATE OF ONSET



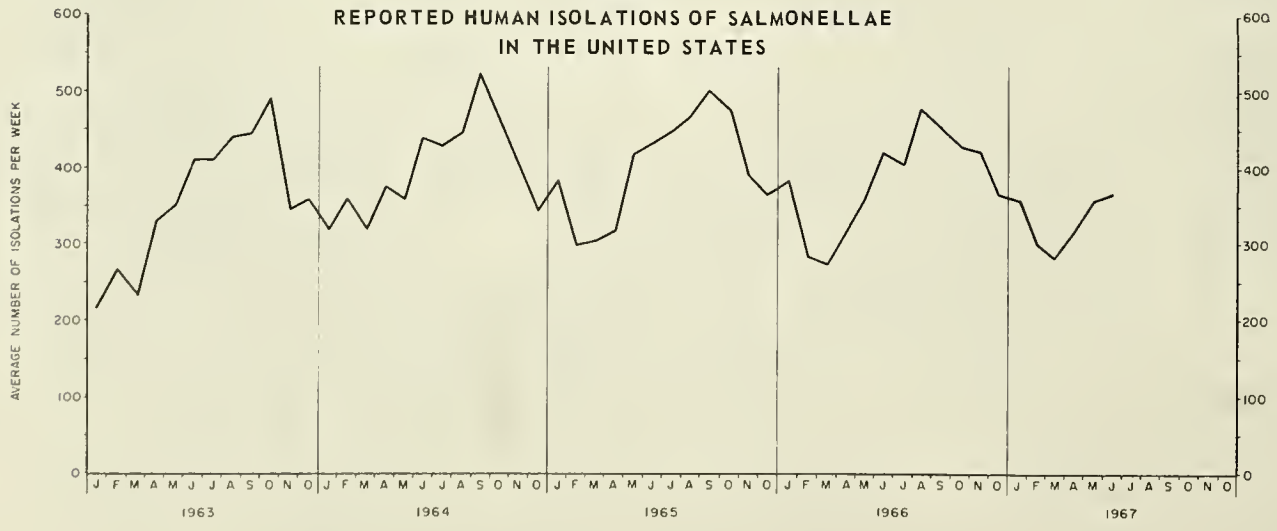
SURVEILLANCE SUMMARY
SALMONELLOSIS – April, May, and June 1967

For the months of April, May, and June 1967, the total numbers of salmonellae reported from human sources were 1,256, 1,788, and 1,473, respectively. The weekly averages for the 3 months (314, 358*, and 368, respectively) demonstrate the expected seasonal pattern (Figure 3). The age and sex distribution were similar to those of previous months. In Table 1, the seven most frequently reported serotypes from human sources for the 3 months are listed.

*Weekly average for May is figured on a 5-week period; those for April and June are based on 4-week periods.

In April, 30 states reported a total of 659 nonhuman isolations of salmonellae, representing 55 serotypes.

Figure 3
REPORTED HUMAN ISOLATIONS OF SALMONELLAE
IN THE UNITED STATES


AVERAGE NUMBER OF ISOLATIONS PER WEEK
0
100
200
300
400
500
600
J F M A M J J A S O N O J F M A M J J A S O N O J F M A M J J A S O N O J F M A M J J A S O N O J F M A M J J A S O N O
1963
1964
1965
1966
1967

Reports of 553 nonhuman isolations were received from 29 states in May, again including 55 serotypes; the May total represents 16.1 percent decrease from that of April. A further decrease of 0.05 percent from the May total was observed in June when 550 nonhuman isolates (59 serotypes) were notified from 30 states (Table 2).

(Reported by the Salmonella Unit, Epidemiology Program, NCDC.)

Table 1
Seven Most Frequently Reported Serotypes from Human Sources
April, May, and June 1967

Serotypes	April			May			June		
	Rank	Number	Percent	Rank	Number	Percent	Rank	Number	Percent
S. typhi-murium and *S. typhi-murium* var. *copenhagen*	1	396	31.5	1	602	33.7	1	467	31.7
S. heidelberg	2	136	10.8	2	121	6.8	2	123	8.4
S. enteritidis	3	92	7.3	3	101	5.6	3	107	7.3
S. blockley	4	65	5.2						
S. infantis	5	62	4.9	4	89	5.0	7	65	4.4
S. typhi	6	53	4.2				6	69	4.7
S. newport	7	45	3.6	4	89	5.0	4	101	6.9
S. montevideo				6	70	3.9	7	65	4.4
S. san-diego				7	58	3.2			
S. saint-paul							5	76	5.2
Total		849	67.6		1,130	63.2		1,073	72.8
Total all serotypes		1,256			1,788			1,473	

Table 2
Seven Most Frequently Reported Serotypes from Nonhumon Sources
April, May, and June 1967

Serotypes	April			May			June		
	Rank	Number	Percent	Rank	Number	Percent	Rank	Number	Percent
S. saint-paul	1	110	16.7				4	30	5.5
S. typhi-murium and *S. typhi-murium* var. *copenhagen*	2	85	12.9	1	101	18.3	1	79	14.4
S. heidelberg	3	58	8.8	2	39	7.1			
S. anatum	4	54	8.2	6	25	4.5	5	27	4.9
S. senftenberg	5	27	4.1	4	27	4.9			
S. derby	6	25	3.8				6	25	4.5
S. infantis	7	23	3.5	6	25	4.5			
S. montevideo				3	29	5.2	3	36	6.5
S. thompson				4	27	4.9			
S. tennessee							2	74	13.5
S. newington							7	24	4.4
Total		382	58.0		273	49.4		295	53.6
Total all serotypes		659			553			550	
	Most Common Sources of Nonhuman Isolations								
Swine	1	123	18.7						
Turkey	2	109	16.5	1	93	16.8	1	91	16.5
Bone meal/meat scraps	3	54	8.2	4	47	8.5	4	37	6.7
Dry milk	4	51	7.7	5	43	7.8	2	86	15.6
Chickens	5	35	5.3	2	54	9.8			
Cattle				2	54	9.8			
Animal feed							3	62	11.3
Eggs							5	32	5.8

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 2, 1967 AND SEPTEMBER 3, 1966 (35th WEEK)

AREA	ASEPTIC MENINGITIS		BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			
					Primary including unsp. cases		Post-Infectious	Serum		Infectious	
	1967	1966	1967	1967	1967	1966	1967	1967	1966	1967	1966
UNITED STATES...	121	127	6	5	70	194	10	45	20	638	498
NEW ENGLAND.....	2	22	-	-	2	2	-	1	-	30	25
Maine.....	-	1	-	-	-	-	-	-	-	2	3
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	1
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	13	-	-	-	1	-	-	-	9	12
Rhode Island.....	2	7	-	-	2	1	-	1	-	2	2
Connecticut.....	-	1	-	-	-	-	-	-	-	17	7
MIDDLE ATLANTIC.....	5	9	-	-	6	4	1	13	11	109	89
New York City.....	1	6	-	-	-	1	-	11	6	43	17
New York, Up-State.	1	-	-	-	-	1	1	-	2	29	22
New Jersey.....	3	2	-	-	2	2	-	2	3	24	10
Pennsylvania.....	-	1	-	-	4	-	-	-	-	13	40
EAST NORTH CENTRAL...	9	10	1	-	35	25	3	-	-	108	84
Ohio.....	2	1	-	-	29	23	-	-	-	51	19
Indiana.....	2	1	-	-	2	-	-	-	-	9	11
Illinois.....	5	2	1	-	3	2	3	-	-	12	16
Michigan.....	-	5	-	-	1	-	-	-	-	30	34
Wisconsin.....	-	1	-	-	-	-	-	-	-	6	4
WEST NORTH CENTRAL...	3	2	-	-	8	16	-	-	-	29	13
Minnesota.....	2	2	-	-	2	-	-	-	-	3	7
Iowa.....	1	-	-	-	-	1	-	-	-	4	3
Missouri.....	-	-	-	-	1	4	-	-	-	16	3
North Dakota.....	-	-	-	-	-	4	-	-	-	1	-
South Dakota.....	-	-	-	-	-	3	-	-	-	-	-
Nebraska.....	-	-	-	-	-	1	-	-	-	-	-
Kansas.....	-	-	-	-	5	3	-	-	-	5	-
SOUTH ATLANTIC.....	50	19	1	1	9	4	1	3	-	67	47
Delaware.....	-	-	-	-	-	-	-	-	-	-	2
Maryland.....	46	2	-	-	3	1	-	1	-	7	14
Dist. of Columbia..	-	-	-	-	1	-	-	-	-	-	1
Virginia.....	-	3	1	-	2	1	-	-	-	7	6
West Virginia.....	-	2	-	-	2	-	-	-	-	4	1
North Carolina.....	-	2	-	-	-	-	-	1	-	9	8
South Carolina.....	-	-	-	1	-	-	-	-	-	1	-
Georgia.....	-	-	-	-	-	-	-	-	-	19	8
Florida.....	4	10	-	-	1	2	1	1	-	20	7
EAST SOUTH CENTRAL...	9	16	-	2	1	9	1	-	1	27	33
Kentucky.....	-	1	-	-	-	-	-	-	-	2	9
Tennessee.....	7	10	-	-	1	9	1	-	1	18	14
Alabama.....	-	5	-	2	-	-	-	-	-	6	4
Mississippi.....	2	-	-	-	-	-	-	-	-	1	6
WEST SOUTH CENTRAL...	4	10	2	2	2	113	-	-	-	74	48
Arkansas.....	3	-	-	-	1	-	-	-	-	1	7
Louisiana.....	-	3	-	2	-	1	-	-	-	13	7
Oklahoma.....	-	-	-	-	-	1	-	-	-	13	-
Texas.....	1	7	2	-	1	111	-	-	-	47	34
MOUNTAIN.....	-	1	-	-	-	9	-	-	-	21	21
Montana.....	-	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	-	-	3	1
Wyoming.....	-	-	-	-	-	-	-	-	-	1	1
Colorado.....	-	-	-	-	-	6	-	-	-	7	5
New Mexico.....	-	-	-	-	-	-	-	-	-	2	1
Arizona.....	-	1	-	-	-	2	-	-	-	6	7
Utah.....	-	-	-	-	-	1	-	-	-	2	6
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	39	38	2	-	7	12	4	28	8	173	138
Washington.....	-	-	-	-	-	-	-	-	5	15	11
Oregon.....	-	-	-	-	-	-	-	-	-	12	29
California.....	37	38	2	-	7	12	4	28	3	146	98
Alaska.....	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	2	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	1	-	-	-	36	19

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 2, 1967 AND SEPTEMBER 3, 1966 (35th WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA
			Cumulative			Cumulative		Total	Paralytic		
	1967	1967	1967	1966	1967	1967	1966	1967	1967	Cum. 1967	1967
UNITED STATES...	47	172	57,422	188,681	30	1,655	2,670	-	-	19	133
NEW ENGLAND.....	2	1	845	2,243	1	68	118	-	-	-	16
Maine.....	-	-	238	196	-	3	9	-	-	-	2
New Hampshire.....	-	-	74	80	-	2	9	-	-	-	-
Vermont.....	-	-	42	231	-	1	4	-	-	-	-
Massachusetts.....	2	1	340	776	-	32	48	-	-	-	2
Rhode Island.....	-	-	62	72	-	4	13	-	-	-	-
Connecticut.....	-	-	89	888	1	26	35	-	-	-	12
MIDDLE ATLANTIC.....	9	10	2,246	17,977	4	270	318	-	-	5	29
New York City.....	1	3	450	8,274	-	48	45	-	-	1	22
New York, Up-State.	2	4	578	2,525	-	66	89	-	-	1	7
New Jersey.....	4	2	486	1,845	1	93	97	-	-	-	-
Pennsylvania.....	2	1	732	5,333	3	63	87	-	-	3	-
EAST NORTH CENTRAL...	3	24	5,342	68,427	8	235	414	-	-	1	30
Ohio.....	1	2	1,139	6,333	4	79	113	-	-	-	4
Indiana.....	-	1	593	5,674	3	34	73	-	-	-	1
Illinois.....	2	4	942	11,332	1	54	77	-	-	-	3
Michigan.....	-	2	919	14,316	-	52	109	-	-	1	2
Wisconsin.....	-	15	1,749	30,772	-	16	42	-	-	-	20
WEST NORTH CENTRAL...	-	3	2,831	8,666	1	71	142	-	-	3	3
Minnesota.....	-	-	120	1,639	-	17	34	-	-	-	-
Iowa.....	-	1	747	5,303	-	14	22	-	-	1	-
Missouri.....	-	-	332	530	1	15	55	-	-	-	-
North Dakota.....	-	2	861	1,078	-	1	9	-	-	-	3
South Dakota.....	-	-	52	40	-	6	4	-	-	-	-
Nebraska.....	-	-	626	76	-	12	8	-	-	-	-
Kansas.....	-	-	93	NN	-	6	10	-	-	2	-
SOUTH ATLANTIC.....	18	18	6,854	15,132	6	315	448	-	-	2	8
Delaware.....	-	-	45	256	-	6	4	-	-	-	-
Maryland.....	1	2	154	2,096	1	39	46	-	-	1	2
Dist. of Columbia..	-	-	22	382	-	10	11	-	-	-	-
Virginia.....	-	2	2,181	2,146	1	39	53	-	-	-	1
West Virginia.....	-	5	1,382	5,210	-	21	21	-	-	-	3
North Carolina.....	16	-	847	479	-	66	114	-	-	1	-
South Carolina.....	-	-	510	655	-	29	47	-	-	-	1
Georgia.....	-	-	34	234	2	49	63	-	-	-	-
Florida.....	1	9	1,679	3,674	2	56	89	-	-	-	1
EAST SOUTH CENTRAL...	-	18	5,167	19,624	1	128	234	-	-	1	2
Kentucky.....	-	-	1,321	4,699	-	35	85	-	-	-	-
Tennessee.....	-	18	1,862	12,236	1	54	77	-	-	-	2
Alabama.....	-	-	1,322	1,678	-	26	50	-	-	-	-
Mississippi.....	-	-	662	1,011	-	13	22	-	-	1	-
WEST SOUTH CENTRAL...	7	70	17,283	24,326	3	218	367	-	-	7	-
Arkansas.....	-	-	1,404	971	2	30	33	-	-	-	-
Louisiana.....	-	1	153	99	1	86	137	-	-	-	-
Oklahoma.....	7	2	3,350	480	-	16	18	-	-	1	-
Texas.....	-	67	12,376	22,776	-	86	179	-	-	6	-
MOUNTAIN.....	1	11	4,613	11,899	3	30	85	-	-	-	13
Montana.....	-	-	282	1,808	-	-	4	-	-	-	-
Idaho.....	-	1	378	1,552	2	3	5	-	-	-	-
Wyoming.....	-	-	180	159	-	1	6	-	-	-	-
Colorado.....	-	2	1,546	1,299	1	13	46	-	-	-	7
New Mexico.....	-	1	579	1,130	-	3	10	-	-	-	-
Arizona.....	-	3	1,014	5,280	-	4	10	-	-	-	6
Utah.....	1	4	365	628	-	4	-	-	-	-	-
Nevada.....	-	-	269	43	-	2	4	-	-	-	-
PACIFIC.....	7	17	12,241	20,387	3	320	544	-	-	-	32
Washington.....	-	1	5,419	3,525	-	28	37	-	-	-	5
Oregon.....	-	7	1,579	1,746	-	25	34	-	-	-	3
California.....	7	8	4,947	14,512	3	254	454	-	-	-	21
Alaska.....	-	-	133	471	-	9	15	-	-	-	2
Hawaii.....	-	1	163	133	-	4	4	-	-	-	1
Puerto Rico.....	-	2	2,103	2,652	-	12	11	-	-	-	-

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 2, 1967 AND SEPTEMBER 3, 1966 (35th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES...	4,098	5	147	5	123	15	269	16	229	66	3,035
NEW ENGLAND.....	420	-	2	-	1	-	3	-	1	-	74
Maine.....	10	-	-	-	-	-	-	-	-	-	16
New Hampshire.....	11	-	-	-	-	-	-	-	-	-	37
Vermont.....	10	-	-	-	-	-	-	-	-	-	18
Massachusetts.....	70	-	1	-	1	-	2	-	1	-	2
Rhode Island.....	26	-	-	-	-	-	-	-	-	-	1
Connecticut.....	293	-	1	-	-	-	1	-	-	-	-
MIDDLE ATLANTIC.....	65	1	12	-	-	1	24	3	25	4	66
New York City.....	3	1	6	-	-	-	12	-	-	-	-
New York, Up-State.	59	-	1	-	-	-	7	-	7	4	56
New Jersey.....	NN	-	1	-	-	-	2	3	10	-	-
Pennsylvania.....	3	-	4	-	-	1	3	-	8	-	10
EAST NORTH CENTRAL...	297	-	16	-	12	2	23	2	20	4	303
Ohio.....	48	-	4	-	-	1	6	1	11	-	103
Indiana.....	51	-	3	-	2	1	8	-	1	3	69
Illinois.....	77	-	7	-	10	-	2	1	8	1	61
Michigan.....	63	-	2	-	-	-	6	-	-	-	20
Wisconsin.....	58	-	-	-	-	-	1	-	-	-	50
WEST NORTH CENTRAL...	121	-	10	1	21	-	14	-	3	15	719
Minnesota.....	1	-	3	-	-	-	1	-	-	3	138
Iowa.....	38	-	1	-	1	-	2	-	-	5	96
Missouri.....	5	-	5	-	8	-	7	-	1	1	131
North Dakota.....	22	-	-	-	-	-	-	-	-	-	128
South Dakota.....	8	-	1	-	2	-	-	-	-	-	92
Nebraska.....	-	-	-	-	-	-	3	-	2	4	48
Kansas.....	47	-	-	1	10	-	1	-	-	2	86
SOUTH ATLANTIC.....	667	1	34	-	9	7	40	6	95	7	393
Delaware.....	1	-	-	-	-	-	-	-	-	-	-
Maryland.....	63	-	-	-	-	-	2	2	18	-	2
Dist. of Columbia..	10	-	-	-	-	-	1	-	-	-	-
Virginia.....	183	-	7	-	-	-	3	2	23	1	180
West Virginia.....	156	-	1	-	2	-	1	-	1	1	57
North Carolina.....	14	-	6	-	-	-	3	2	40	-	3
South Carolina.....	13	-	1	-	2	2	9	-	4	-	-
Georgia.....	6	-	3	-	4	4	13	-	9	2	92
Florida.....	221	1	16	-	1	1	8	-	-	3	59
EAST SOUTH CENTRAL...	982	-	23	-	9	1	45	2	43	12	577
Kentucky.....	35	-	3	-	1	-	18	-	13	4	132
Tennessee.....	792	-	8	-	6	1	9	2	23	6	397
Alabama.....	96	-	9	-	-	-	9	-	7	1	39
Mississippi.....	59	-	3	-	2	-	9	-	-	1	9
WEST SOUTH CENTRAL...	457	3	34	3	59	2	32	3	26	17	643
Arkansas.....	-	-	5	2	36	2	9	1	7	3	89
Louisiana.....	2	-	3	-	4	-	13	-	-	-	56
Oklahoma.....	16	1	2	1	15	-	6	-	13	8	222
Texas.....	439	2	24	-	4	-	4	2	6	6	276
MOUNTAIN.....	611	-	-	1	8	-	16	-	8	3	95
Montana.....	22	-	-	-	1	-	1	-	-	-	-
Idaho.....	47	-	-	-	-	-	-	-	-	-	-
Wyoming.....	12	-	-	-	2	-	-	-	-	-	5
Colorado.....	362	-	-	-	1	-	11	-	8	-	10
New Mexico.....	106	-	-	-	-	-	1	-	-	1	29
Arizona.....	34	-	-	-	-	-	3	-	-	-	43
Utah.....	28	-	-	1	4	-	-	-	-	-	3
Nevada.....	-	-	-	-	-	-	-	-	-	2	5
PACIFIC.....	478	-	16	-	4	2	72	-	8	4	165
Washington.....	42	-	-	-	2	-	1	-	1	-	1
Oregon.....	24	-	1	-	-	-	-	-	1	-	3
California.....	387	-	13	-	2	2	68	-	6	4	161
Alaska.....	24	-	-	-	-	-	-	-	-	-	-
Hawaii.....	1	-	2	-	-	-	3	-	-	-	-
Puerto Rico.....	2	1	11	-	-	-	4	-	-	-	26

Week No. 35

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED SEPTEMBER 2, 1967

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over		
NEW ENGLAND:	681	396	27	26
Boston, Mass.	245	132	16	12
Bridgeport, Conn.	30	19	-	1
Cambridge, Mass.	24	19	-	-
Fall River, Mass.	17	10	2	-
Hartford, Conn.	63	34	-	3
Lowell, Mass.	31	20	3	2
Lynn, Mass.	15	9	-	-
New Bedford, Mass.	24	18	1	-
New Haven, Conn.	45	23	-	2
Providence, R. I.	61	34	2	2
Somerville, Mass.	9	6	-	-
Springfield, Mass.	47	28	1	2
Waterbury, Conn.	26	15	-	-
Worcester, Mass.	44	29	2	2
MIDDLE ATLANTIC:	2,840	1,648	101	137
Albany, N. Y.	48	27	-	1
Allentown, Pa.	49	31	2	1
Buffalo, N. Y.	150	81	6	14
Camden, N. J.	33	19	1	2
Elizabeth, N. J.	24	11	1	-
Erie, Pa.	41	23	2	2
Jersey City, N. J.	55	32	3	5
Newark, N. J.	62	40	2	6
New York City, N. Y.	1,442	811	47	59
Paterson, N. J.	29	16	1	1
Philadelphia, Pa.	324	198	7	17
Pittsburgh, Pa.	179	107	2	10
Reading, Pa.	49	30	3	1
Rochester, N. Y.	106	75	10	2
Schenectady, N. Y.	24	12	2	3
Scranton, Pa.	43	26	-	3
Syracuse, N. Y.	56	34	1	3
Trenton, N. J.	54	34	1	3
Utica, N. Y.	36	25	5	-
Yonkers, N. Y.	36	16	5	4
EAST NORTH CENTRAL:	2,461	1,382	65	137
Akron, Ohio	63	36	-	4
Canton, Ohio	29	11	1	-
Chicago, Ill.	747	392	23	47
Cincinnati, Ohio	175	105	7	9
Cleveland, Ohio	154	79	1	6
Columbus, Ohio	106	57	-	6
Dayton, Ohio	82	47	3	6
Detroit, Mich.	318	184	2	15
Evansville, Ind.	41	26	2	-
Flint, Mich.	53	22	-	7
Fort Wayne, Ind.	40	22	6	3
Gary, Ind.	27	14	2	-
Grand Rapids, Mich.	53	37	3	3
Indianapolis, Ind.	155	87	3	10
Madison, Wis.	24	13	-	1
Milwaukee, Wis.	128	88	3	5
Peoria, Ill.	39	26	-	3
Rockford, Ill.	31	16	2	4
South Bend, Ind.	51	34	4	1
Toledo, Ohio	79	48	2	7
Youngstown, Ohio	66	38	1	-
WEST NORTH CENTRAL:	752	461	22	33
Des Moines, Iowa	45	28	1	1
Duluth, Minn.	15	11	-	-
Kansas City, Kans.	52	29	3	8
Kansas City, Mo.	117	72	4	5
Lincoln, Nebr.	32	18	2	1
Minneapolis, Minn.	94	62	-	2
Omaha, Nebr.	81	49	2	5
St. Louis, Mo.	196	120	6	8
St. Paul, Minn.	69	42	1	2
Wichita, Kans.	51	30	3	1
SOUTH ATLANTIC:	1,068	546	39	59
Atlanta, Ga.	142	69	10	13
Baltimore, Md.	224	111	5	11
Charlotte, N. C.	48	22	1	3
Jacksonville, Fla.	64	29	1	1
Miami, Fla.	95	52	-	7
Norfolk, Va.	41	21	2	2
Richmond, Va.	68	35	-	6
Savannah, Ga.	35	14	2	1
St. Petersburg, Fla.	71	61	4	1
Tampa, Fla.	61	33	2	4
Washington, D. C.	177	83	9	7
Wilmington, Del.	42	16	3	3
EAST SOUTH CENTRAL:	537	275	18	43
Birmingham, Ala.	91	45	3	4
Chattanooga, Tenn.	47	22	3	7
Knoxville, Tenn.	37	22	2	-
Louisville, Ky.	87	44	5	4
Memphis, Tenn.	120	62	2	14
Mobile, Ala.	32	13	-	2
Montgomery, Ala.	33	16	1	3
Nashville, Tenn.	90	51	2	9
WEST SOUTH CENTRAL:	1,113	552	27	88
Austin, Tex.	30	22	3	1
Baton Rouge, La.	36	20	-	1
Corpus Christi, Tex.	22	10	-	2
Dallas, Tex.	146	55	2	15
El Paso, Tex.	55	29	7	8
Fort Worth, Tex.	70	32	-	2
Houston, Tex.	218	101	3	20
Little Rock, Ark.	68	32	4	4
New Orleans, La.	171	85	2	17
Oklahoma City, Okla.	75	46	-	2
San Antonio, Tex.	122	72	2	8
Shreveport, La.	51	21	4	5
Tulsa, Okla.	49	27	-	3
MOUNTAIN:	388	219	15	23
Albuquerque, N. Mex.	33	14	2	3
Colorado Springs, Colo.	23	12	-	1
Denver, Colo.	101	58	3	7
Ogden, Utah	23	14	1	2
Phoenix, Ariz.	90	43	8	8
Pueblo, Colo.	36	24	1	-
Salt Lake City, Utah	44	31	-	2
Tucson, Ariz.	38	23	-	-
PACIFIC:	1,462	868	32	61
Berkeley, Calif.	28	18	-	-
Fresno, Calif.	42	22	1	2
Glendale, Calif.	19	15	1	1
Honolulu, Hawaii	62	36	4	3
Long Beach, Calif.	70	43	1	5
Los Angeles, Calif.	401	249	6	18
Oakland, Calif.	90	53	2	4
Pasadena, Calif.	39	31	-	-
Portland, Oreg.	105	60	-	5
Sacramento, Calif.	51	30	1	2
San Diego, Calif.	102	57	4	5
San Francisco, Calif.	164	86	3	3
San Jose, Calif.	46	25	2	4
Seattle, Wash.	151	81	5	5
Spokane, Wash.	44	29	1	1
Tacoma, Wash.	48	33	1	3
Total	11,302	6,347	346	607

Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages	432,867
All Causes, Age 65 and over	247,149
Pneumonia and Influenza, All Ages	15,448
All Causes, Under 1 Year of Age	22,022

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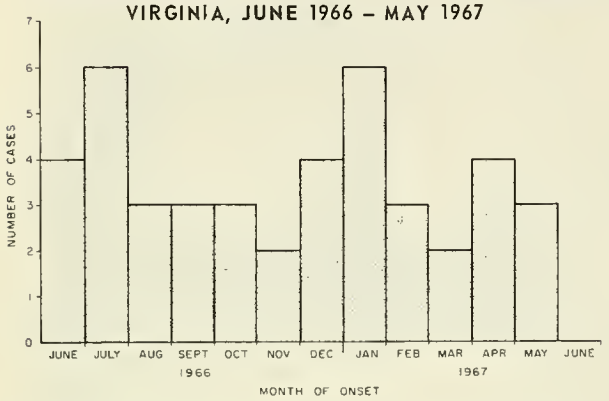
BRUCELLOSIS – *(Continued from page 293)*

Figure 1
CASES OF BRUCELLOSIS IN MEAT PACKING PLANT
VIRGINIA, JUNE 1966 – MAY 1967



treated by the plant physician who prescribed 500 mg Tetracycline q.i.d. and 1 gm Streptomycin daily for 21 days. The number of days lost from work ranged from 7 to 56 with an average of 19.9 days.

Of the 400 or more male employees in the plant, approximately 130 had worked either full time or part time in the beef or pork kill areas; all 43 persons infected had worked in one or the other of these areas. The cases were plotted by specific work location; of 20 different sites incriminated, 7 locations accounted for 30 cases. Illness by number of years employed ranged from 3 months to 25 years (mean 9.9 years); 12 persons had been employed for less than one year. The age range was 22 to 57 years with a mean age of 33.8 years.

The cases were diagnosed on the basis of both clinical and laboratory findings. Forty-two patients exhibited agglutination titres of 1:160 or greater; one had a titre of 1:80 but had a positive culture. Cultures were prepared from the clots of blood specimens on all cases; *Brucella suis* was isolated from four of the cultures.

Maximum daily operating capacity for the plant is approximately 1,600 swine, 150 to 300 of which are sows, in addition to 150 cattle. In May 1967, blood specimens were obtained from randomly selected sows which were being processed in the plant. The brucella reactor rate for the sows examined ranged from 2.7 to 58.1 percent, depending on the source of supply. During the same month, a comprehensive study was initiated to evaluate the problem within the plant and attempt to seek a solution. Included in the study were an analysis in depth of the human cases, serological survey of the employees and processed animals, bacteriological air sampling, air flow studies, and water sampling within the plant. Results of these studies are not yet available.

(Reported by Paul C. White, Jr., M.D., Director, Bureau of Epidemiology, Virginia State Department of Health; S. A. Graham, Jr., M.D., Health Director, City of Richmond Health Department; representatives from the USDA and the State Department of Agriculture; and a team from NCDC.)

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
NATIONAL COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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